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## Patent Abstracts of Japan

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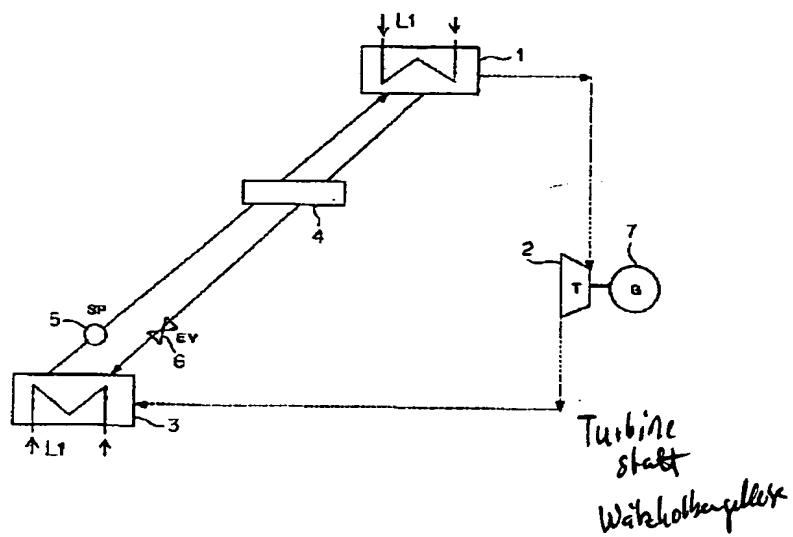
APPLICATION DATE : 28-12-92  
 APPLICATION NUMBER : 04349215

APPLICANT : MITSUI ENG & SHIPBUILD CO LTD;

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TITLE : REGENERATING AND ABSORBING  
 TYPE POWER RECOVERY SYSTEM



ABSTRACT : PURPOSE: To provide a regenerating and absorbing type power recovery system by economically recovering waste heat of a predetermined low temperature as power and the recovered power as not only electric power but also driving force of a compressor so as to reduce required power of a compression or hybrid type heat pump and realize economy of the system as a whole.

CONSTITUTION: A regenerating and absorbing type power recovery system comprises a regenerator 1 for generating [refrigerant steam] of a high voltage from a non-azeotropic mixture refrigerant by using low temperature waste heat as a heat source; an expanding machine 2 for expanding the generated steam so as to obtain a shaft output; an absorber 3 for absorbing low voltage steam after the expansion; a heat exchanger 4 for exchanging heat of refrigerant solutions circulating between the regenerator 1 and the absorber 3; a pump 5 for press-feeding the refrigerant solutions from the absorber 3 to the regenerator 1; and an expanding valve 6 for reducing a pressure of the refrigerant solution to be supplied from the regenerator 1 to the absorber 3.

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